Notice of Allowability	Application No.	Applicant(s)	
	09/916,460	RAJARAM ET AL.	
	Examiner	Art Unit	
	Insun Kang	2193	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *5/26/2006*.

2. ☒ The allowed claim(s) is/are *1,4-29 and 32-58*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 20060817.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Russ Marsden (Reg. 43, 775) on 8/17/2006.

The application has been amended as follows:

Claim 1. (Currently amended) In a wireless communications device, a method for reorganizing software instructions stored in a memory, the method comprising:

forming wireless device system software into a first plurality of symbol libraries, each symbol library comprising at least one symbol, and arranging the first plurality of symbol libraries into a second plurality of code sections;

storing the wireless device system software in a plurality of current code sections; receiving a new code section; identifying a current code section for updating;

resizing current code sections; arranging the new code section with the current code sections to form updated system software for the wireless device by replacing the identified current code section with the new code section; and[[,]] executing the updated system software.

Claim 2. (Cancelled).

Claim 3. (Cancelled).

Claim 27. (Currently amended) The ~~system~~ method of claim 26 wherein resizing current code sections includes suspending the operation of the system software.

Claim 28. (Currently amended) In a wireless communications device, a method for reorganizing software instructions stored in a memory, the method comprising: forming wireless device system software into a first plurality of symbol libraries, each symbol library comprising at least one symbol; arranging the first plurality of symbol libraries into a second plurality of code sections; storing the wireless device system software in a plurality of current code sections with the start of code sections at corresponding start addresses by creating a second plurality of contiguously addressed memory blocks, identifying each memory block with a corresponding code section, and storing code sections in identified memory blocks; receiving a new code section via a wireless communications device air interface; identifying a current code section for updating; calculating the code section sizes; in response to calculating the code section sizes, generating a compaction schedule; resizing current code sections; following the resizing of the current code sections, changing the code section start addresses; temporarily moving code sections into a file system section; replacing the identified current code section with the new code section by storing the code sections from the file system section into memory blocks to maintain contiguous addressing, in response to the compaction schedule; and[[,]] executing the updated system software.

Claim 29. (Currently amended) In a wireless communications device, a system for

reorganizing software instructions stored in a memory, the system comprising: a code storage section comprising a first plurality of symbol libraries, each symbol library comprising at least one symbol, with the first plurality of symbol libraries being arranged into a second plurality of code sections; [[a]] the code storage section memory including executable wireless device system software differentiated into a plurality of current code sections; a file system section memory for receiving new code sections and a compaction instruction set with instructions for identifying a current code section for updating;

a compactor to resize current code sections wherein the compactor replaces the identified current code section in the code storage section with the new code section; and wherein the arrangement of new code sections with the current code sections in the code storage section forms updated system software.

Claim 30. (Cancelled).

Claim 31. (Cancelled).

Claim 58. (Currently amended) In a wireless communications device, a system for reorganizing software instructions stored in a memory, the system comprising: a code storage section comprising a first plurality of symbol libraries, each symbol library comprising at least one symbol, with the first plurality of symbol libraries being arranged into a second plurality of code sections; [[a]] the code storage section memory including executable wireless device system software differentiated into a plurality of current code sections with the start addresses identified with a plurality of contiguously addressed

memory blocks; a file system section for receiving new code sections, via an airlink interface, including a compaction instruction set identifying the current code section for updating; a compactor to calculate the code section sizes, generate a compaction schedule, resize current code sections, temporarily move code sections into a file system section and replace the identified current code section with the new code section by storing the code sections into memory blocks to maintain contiguous addressing; and[[,]] wherein the arrangement of new code sections with the current code sections in the code storage section forms updated system software.

The applicant agreed to submit formal drawings.

These amendments were necessary in order to further clarify the claims.

Examiner's Statement of Reason(s) for Allowance

2. Claims 1, 4-29, and 32-58 (renumbered as 1-54) are allowed.

3. The following is an examiner's statement of reason s for allowance:

The closest prior arts of record, i.e. Hutchinson, Yoshida, taken alone or in combination, fail to teach or fairly suggest at least: forming wireless device system software into a first plurality of symbol libraries, each symbol library comprising at least

one symbol, and arranging the first plurality of symbol libraries into a second plurality of code sections... resizing current code sections; arranging the new code section with the current code sections to form updated system software for the wireless device by replacing the identified current code section with the new code section; and executing the updated system software as recited in the independent claims 1, 28, 29, and 58.

While Hutchinson discloses independently downloading a main program and optional features into a set of storage locations of a wireless communication device and Yoshida discloses remotely updating software code of personal handy phone system equipment, ultimately, Hutchinson and Yoshida do not disclose at least: forming the system software into a first plurality of symbol libraries, each symbol library comprising at least one symbol, and arranging the first plurality of symbol libraries into a second plurality of code sections... resizing current code sections. See also Applicant's remarks filed on 5/26/2006.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Insun Kang whose telephone number is 571-272-3724. The examiner can normally be reached on M-F 7:30-4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on 571-272-3719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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